

FIG. 1

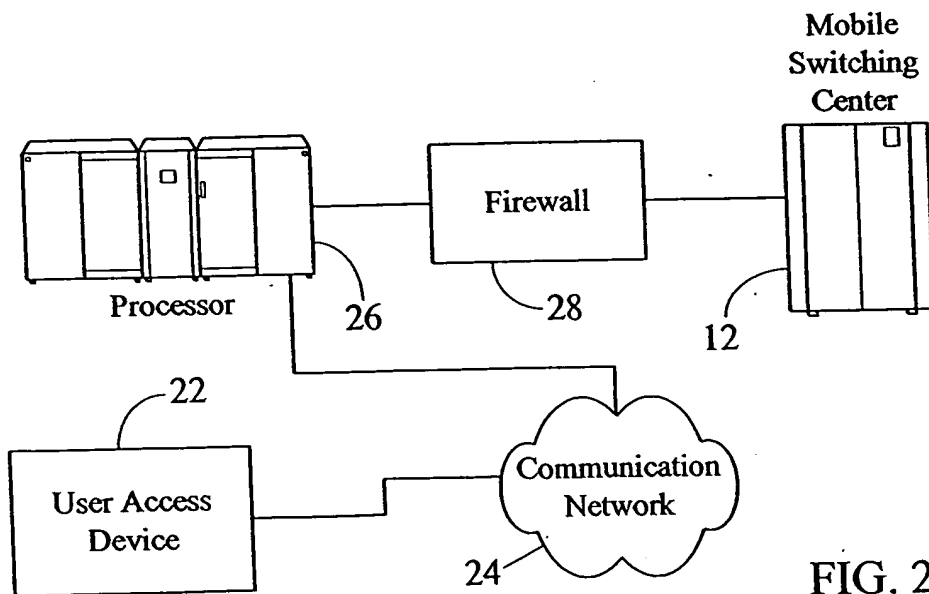


FIG. 2

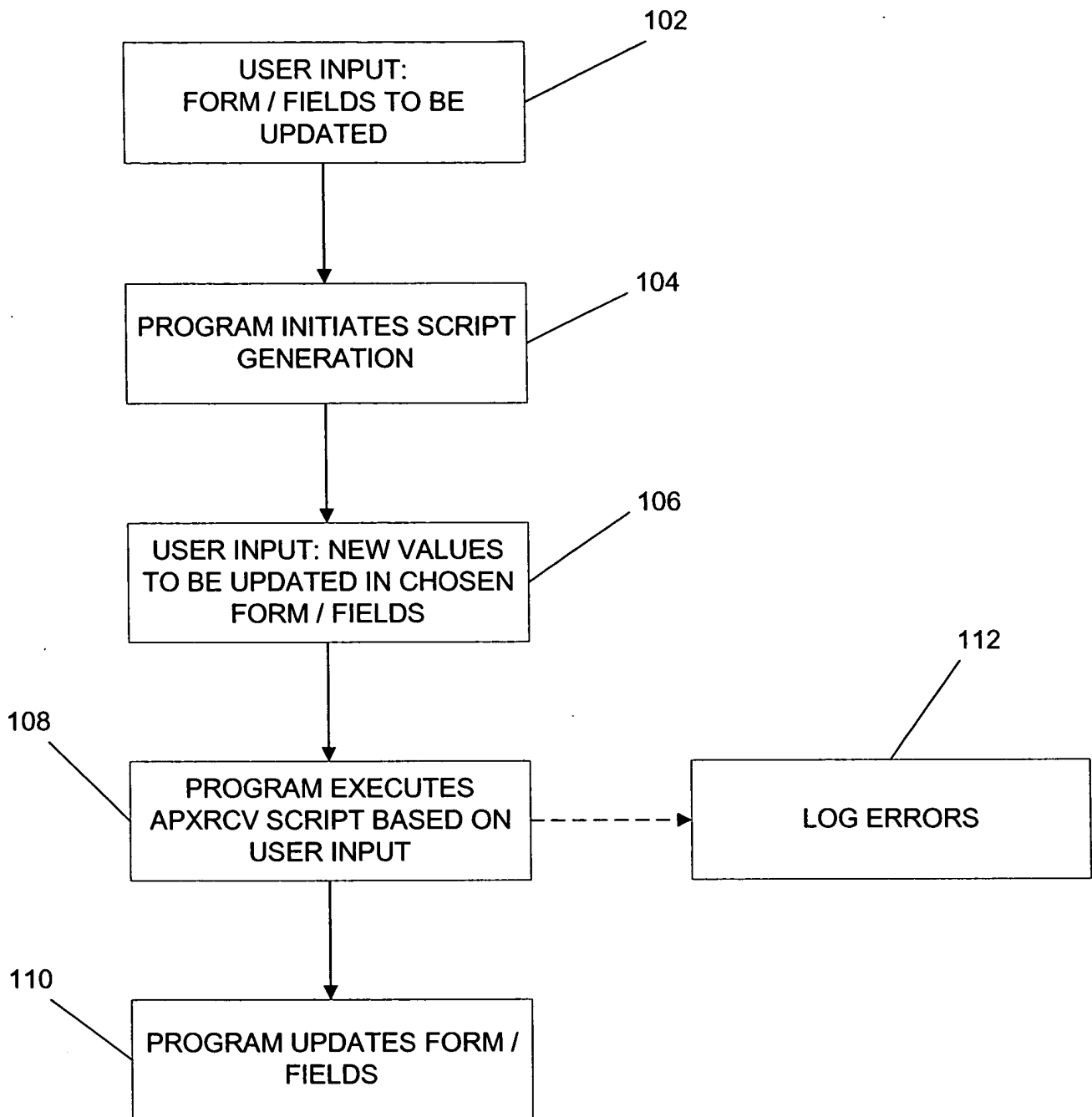


FIG. 3

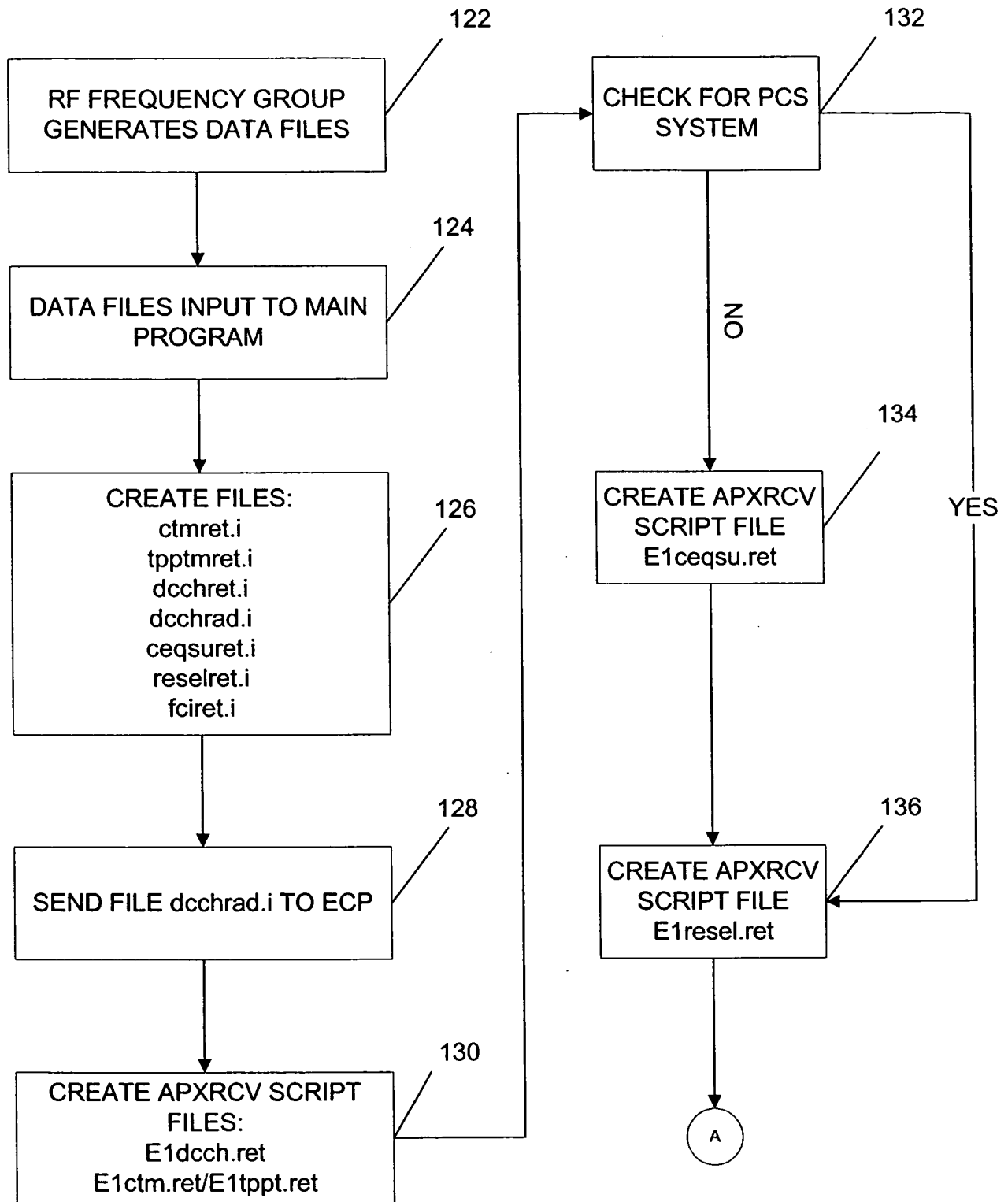


FIG. 4A

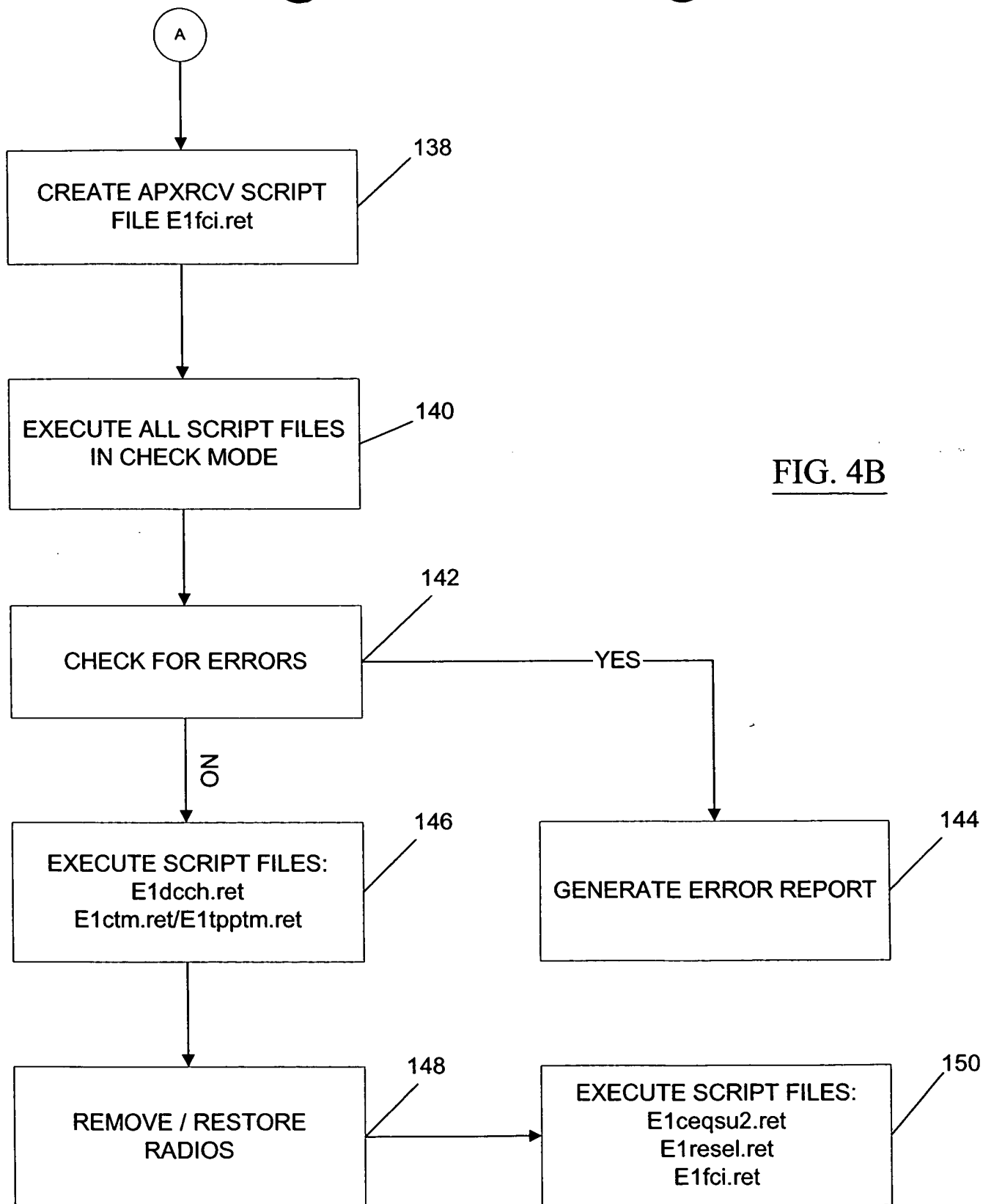


FIG. 4B

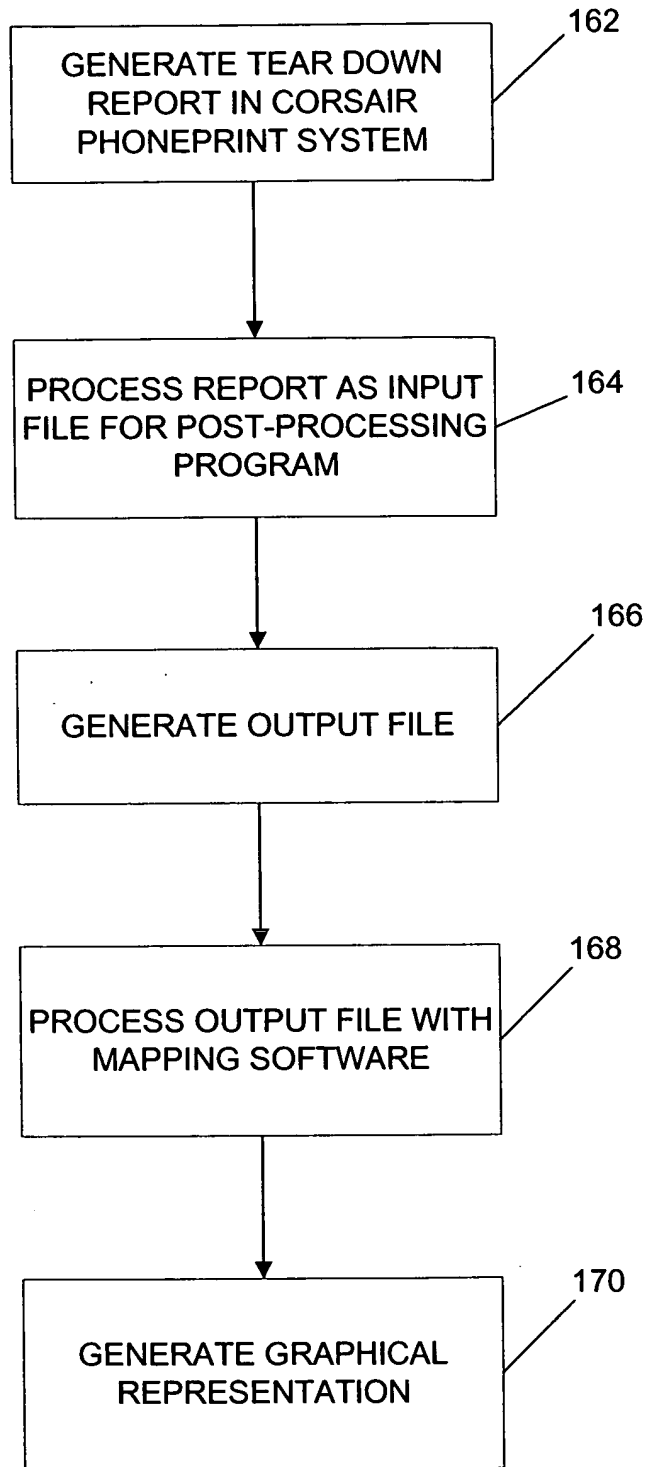


FIG. 5

>pg pp9912.txt

Date	Time(2)	Site_ID	MIN(1)	Dialed_Digits	Tear-Down_Reason	
12/25/99	19:26:09	20	2012075854	12014981322	MFG	
12/23/99	14:56:20	219	2012075854	5617767114	MFG	
12/26/99	21:40:32	167	2012130072	19547814445	MFG	
12/23/99	19:06:49	82	2012134416	9544289147	MFG	
12/23/99	19:06:23	82	2012134416	9544289147	MFG	
12/25/99	17:23:55	82	2012134416	9544285083	MFG	
12/25/99	15:06:20	82	2012134416	2015680907	MFG	
12/25/99	13:04:16	82	2012134416	2015680907	MFG	
12/25/99	13:04:05	82	2012134416	2015680907	MFG	
12/25/99	13:03:53	82	2012134416	2015680907	MFG	
12/25/99	13:03:31	82	2012134416	2015680907	MFG	
12/25/99	13:01:49	82	2012134416	2015680907	MFG	
12/25/99	12:53:38	82	2012134416	2015680907	MFG	
12/25/99	12:52:32	82	2012134416	2015680907	MFG	
12/25/99	12:52:03	82	2012134416	2015680907	MFG	
12/25/99	12:50:48	82	2012134416	2015680907	MFG	
12/25/99	12:48:15	82	2012134416	2015680907	MFG	
12/25/99	12:47:16	82	2012134416	5680907	MFG	
12/24/99	11:58:50	82	2012134416	8003328463	MFG	
12/24/99	11:58:08	82	2012134416	8003328463	MFG	
12/24/99	10:03:16	82	2012134416	9544289147	MFG	
12/22/99	14:58:09	80	2012300764	19546467166	MFG	
12/29/99	10:54:28	177	2012400657	19086881800	MFG	
12/29/99	10:51:49	177	2012400657	9412503698	MFG	
12/29/99	10:25:04	145	2012400657	12012400657	MFG	
12/29/99	10:24:42	145	2012400657	12012400657	MFG	
12/27/99	21:26:01	49	2012476225	15616551115	MFG	
12/24/99	19:22:48	219	2012476225	15615551212	MFG	
12/24/99	19:22:26	219	2012476225	15615551212	MFG	
12/24/99	19:22:06	219	2012476225	15615551212	MFG	
12/24/99	19:13:38	219	2012476225	5617950022	MFG	
12/27/99	12:01:06	20	2012476225	15614996976	MFG	
12/23/99	16:23:47	12	2012640686	3105152822	MFG	
12/23/99	16:17:19	12	2012640686	3105152822	MFG	
12/23/99	16:17:03	12	2012640686	3105152822	MFG	

FIG. 6

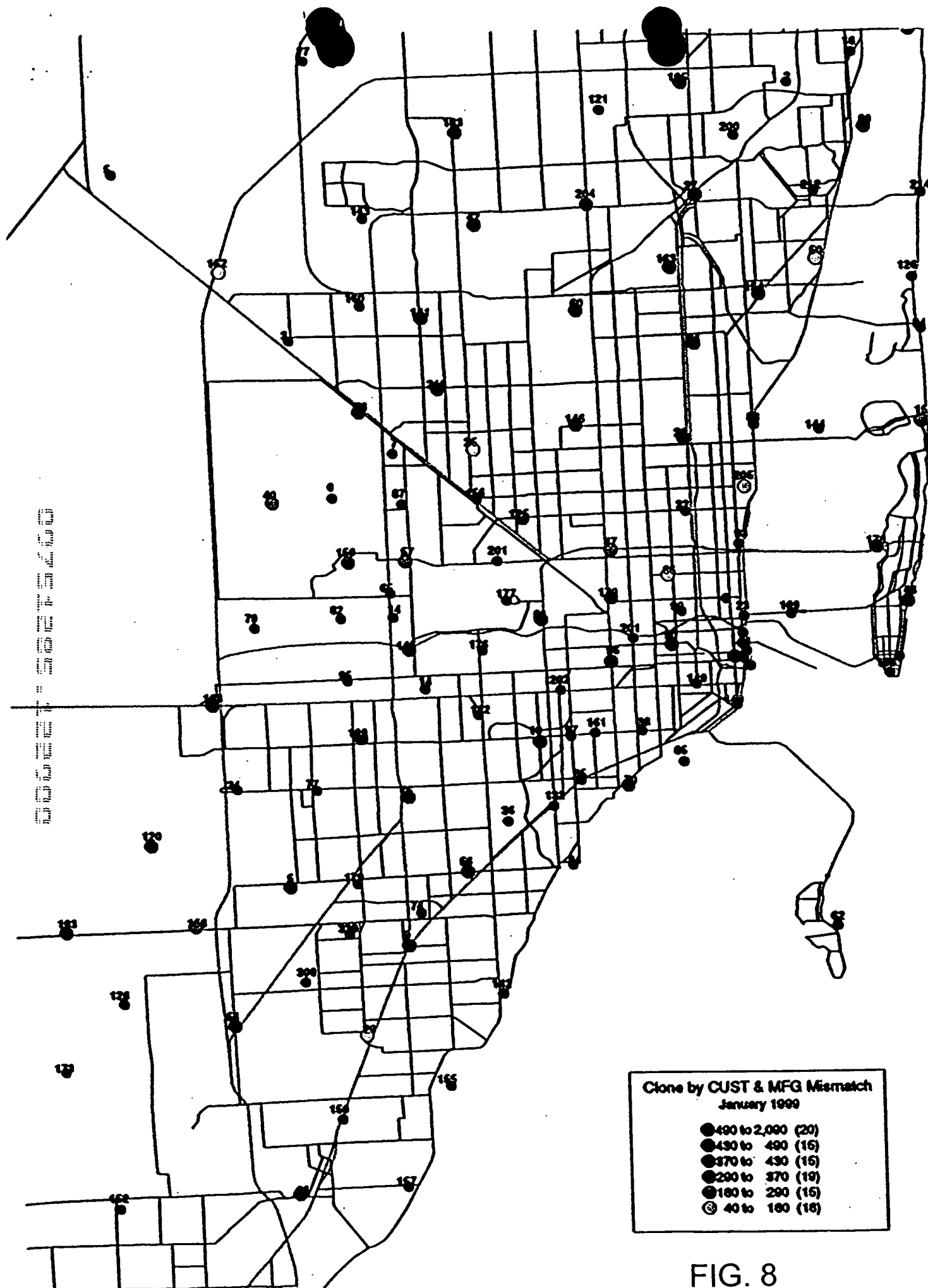


FIG. 8

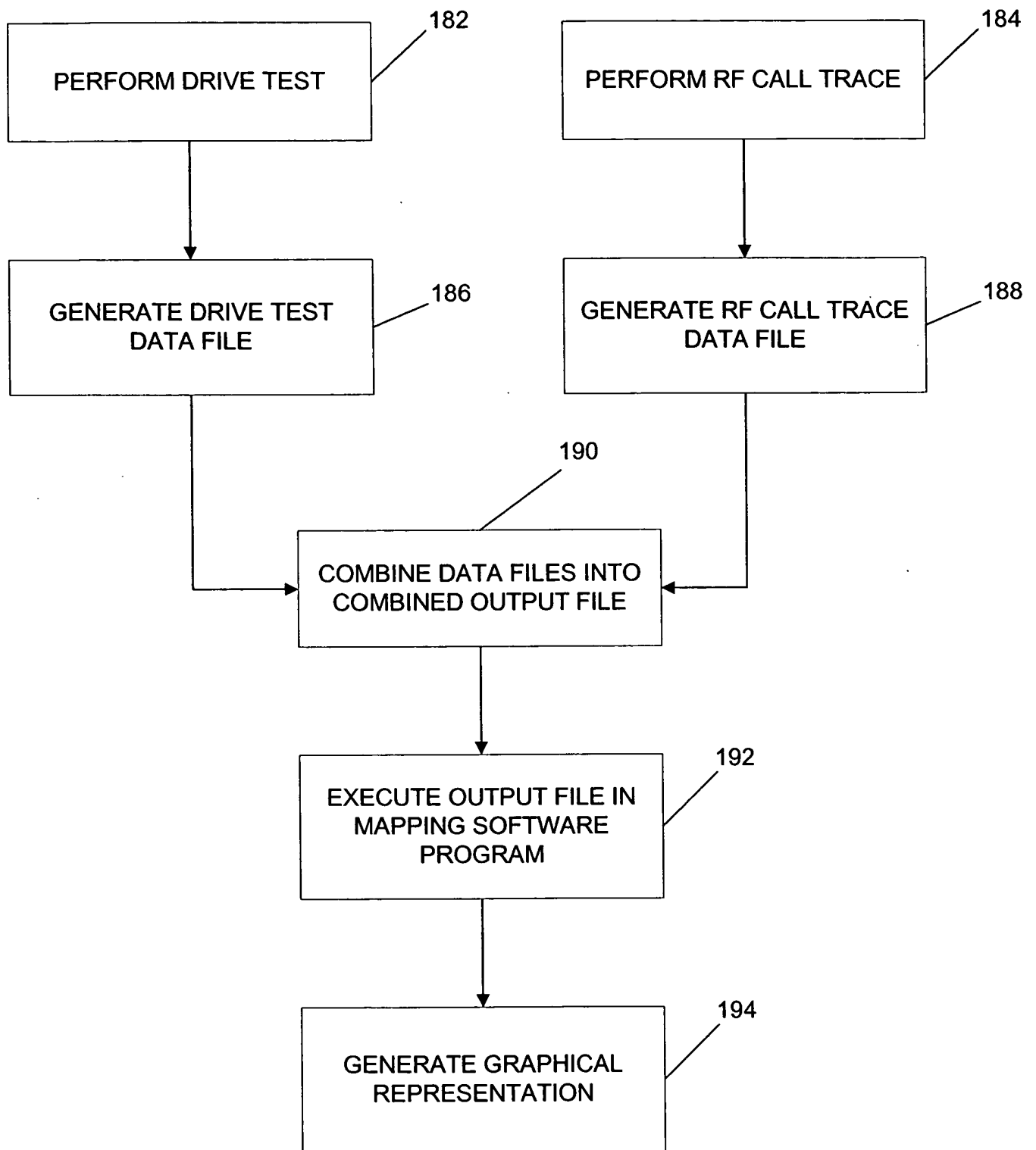


FIG. 9

SAMPLE Ericsson log

MOBILE TELEPHONY CELL TRAFFIC RECORDING
DIGITAL SIGNAL STRENGTH MEASUREMENTS

MSNB	CELL	DEV	SSFVC	SSRVC
9412580201	T017C	MDVC-1060	23	20

SSSTRVC	BERFVC	BERRVC	RBERRVC	FERRVC
6	3	2	2	0

BQRC	TDRVC	FREQERR	TIMEALIGN	MSPW
15	0	1	0	2

NCELL	NSSFFMC	MEASCHAN	VIND
T017A	5	1260	Y
T017B	23	1272	Y
T006B	17	1300	Y
T016B	13	1305	Y
T004A	29	1251	Y
T005B	33	1302	Y
T005A	23	1290	Y
T018A	21	1294	Y
T154B	21	1303	Y

TIME	PRINTIND	FCODE
11:08:27	0	

END

MOBILE TELEPHONY CELL TRAFFIC RECORDING CANDIDATE LIST FOR
HANDOFF

MSNB	CELL	TIME	FCODE	URGENCY
9412580201	T017C	11:08:27		0

CANDCELL	CELLTYPE	NTYPE	RATING
T005B	0	STD	0

END

FIG. 10

[illegible]

FIG. 11A

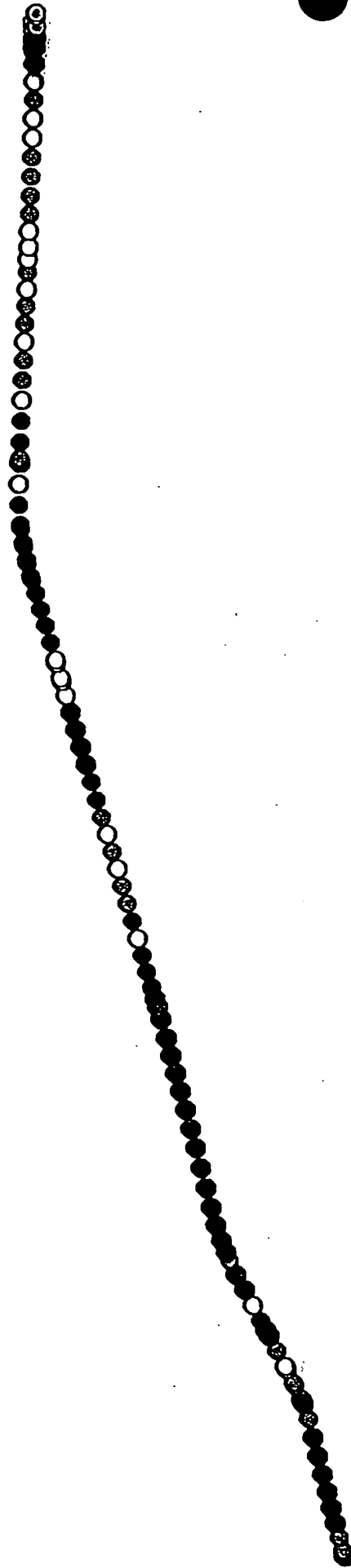
FT
--

R, RBER, FER, BQ, TD, FREQ, TIME, MS, PRINT
DEV, FVC, RVC, TDRVC, FVC, RVC, RVC, RVC, RVC, RVC, ERR, ALIG

28.0069725,9412580201,T017C,MDVC-
15,0,1,0,2,0
28.0069725,9412580201,T017C,MDVC-
15,0,1,0,2,0
28.0069856,9412580201,T017C,MDVC-
15,0,2,0,2,1
28.0069856,9412580201,T017C,MDVC-
15,0,2,0,2,1
28.0070392,9412580201,T005B,MDVC-
2,0,4,0,2,1
28.0072014,9412580201,T005B,MDVC-
7,0,4,0,2,1
28.0072014,9412580201,T005B,MDVC-
7,0,4,0,2,1
28.0073900,9412580201,T005B,MDVC-
8,0,3,0,2,1
28.0073900,9412580201,T005B,MDVC-
8,0,3,0,2,1
28.0075761,9412580201,T005B,MDVC-
7,0,5,0,2,1
28.0075761,9412580201,T005B,MDVC-
7,0,5,0,2,1
992,9412580201,T005B

FIG. 11B

FIG. 12



xrel_0dd by FVC-118

- 75 to 81 (34)
- 79 to 75 (46)
- ⊗ 83 to 79 (46)
- 85 to 83 (27)
- 86 to 85 (47)

Comarco File

13:20:00.8,26.677,-81.567
13:20:01.2,25.230,-81.456
.....
.....
.....
13.21.00.3,28.655,-81.2128

FIG. 13A

Time,Long,Lat,CellNo,SS,

12:41:29,28.6559300,-81.205792000,1353,-124
12:41:29,28.6559300,-81.205792000,201,-106
12:41:29,28.6559300,-81.205792000,32,-106
12:41:29,28.6559300,-81.205792000,321,-76
12:41:29,28.6559300,-81.205792000,323,-66
12:41:29,28.6559300,-81.205792000,831,-100
12:41:30,28.6559260,-81.205580000,323,-66
12:41:31,28.6559170,-81.205380000,321,-75
12:41:31,28.6559170,-81.205380000,321,-75
12:41:31,28.6559170,-81.205380000,323,-64
12:41:32,28.6559080,-81.205198000,323,-63
12:41:33,28.6558950,-81.204922000,321,-73
12:41:33,28.6558950,-81.204922000,323,-62
12:41:34,28.6558900,-81.204769000,321,-73
12:41:34,28.6558900,-81.204769000,321,-73
12:41:34,28.6558900,-81.204769000,322,-98
12:41:34,28.6558900,-81.204769000,323,-61
12:41:35,28.6558900,-81.204577000,1353,-124
12:41:35,28.6558900,-81.204577000,201,-105
12:41:35,28.6558900,-81.204577000,202,-106
12:41:35,28.6558900,-81.204577000,32,-105
12:41:35,28.6558900,-81.204577000,323,-63
12:41:35,28.6558900,-81.204577000,831,-99
12:41:37,28.6558970,-81.204219000,321,-73
12:41:37,28.6558970,-81.204219000,323,-67
12:41:38,28.6559000,-81.204044000,321,-74
12:41:38,28.6559000,-81.204044000,323,-67
12:41:38,28.6559000,-81.204044000,321,-74
12:41:38,28.6559000,-81.204044000,323,-67
12:41:40,28.6559020,-81.203683000,1353,-122
12:41:40,28.6559020,-81.203683000,202,-104
12:41:40,28.6559020,-81.203683000,32,-105
12:41:40,28.6559020,-81.203683000,321,-73
12:41:40,28.6559020,-81.203683000,322,-96
12:41:40,28.6559020,-81.203683000,323,-67
12:41:41,28.6559070,-81.203457000,321,-72
12:41:41,28.6559070,-81.203457000,323,-66
12:41:42,28.6559100,-81.203125000,321,-71
12:41:42,28.6559100,-81.203125000,323,-66

FIG. 13B

V----- Record # 1: -----V
05/10/99 13:22:05 ALM INF 4103 7 32 G TC 457
Call Monitor: Call Record has been Written in RAM disk
Ph#: (407)9223002 Call clear by MS - mobile clear

V----- Record # 2: -----V
05/10/99 13:22:04 ALM INF 4113 7 32 G TC 457
Call Monitor: Call RSSI value
(407)9223002 cell 323 rrssi -77 attn 4 snr 40

V----- Record # 3: -----V
05/10/99 13:22:04 ALM INF 4117 7 32 G SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 323 / -73

V----- Record # 264: -----V
05/10/99 13:21:00 ALM INF 4117 7 20 A SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 201 / -98

V----- Record # 265: -----V
05/10/99 13:21:00 ALM INF 4117 7 32 B SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 322 / -103

V----- Record # 266: -----V
05/10/99 13:21:00 ALM INF 4117 7 83 A SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 831 / -96

V----- Record # 267: -----V
05/10/99 13:21:00 ALM INF 4117 7 32 A SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 321 / -78

V----- Record # 268: -----V
05/10/99 13:21:00 ALM INF 4117 7 135 G SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 1353 / -113

V----- Record # 269: -----V
05/10/99 13:21:00 ALM INF 4117 7 20 B SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 202 / -100

V----- Record # 270: -----V
05/10/99 13:21:00 ALM INF 4113 7 32 G TC 457
Call Monitor: Call RSSI value
(407)9223002 cell 323 rrssi -72 attn 4 snr 40

V----- Record # 271: -----V
05/10/99 13:21:00 ALM INF 4117 7 32 G SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 323 / -71

V----- Record # 272: -----V
05/10/99 13:21:00 ALM INF 4117 7 3 B SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 32 / -115

FIG. 14

tra0528_out by SS

- -85 to -66 (800)
- -92 to -65 (534)
- -98 to -92 (466)
- -106 to -98 (540)
- -115 to -106 (482)
- -127 to -115 (565)